Dynamical Systems and Control

4 March 2013

Dr. David Stargel

Division Chief

AFOSR/RTA

Air Force Research Laboratory

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Dynamical Systems & Controls
The People

- Dr. David Stargel
- Chief, RTA
- Program Officer
  - Multi-scale Structural Mechanics and Prognosis

- Dr. Michael Kendra
- Program Officer
  - Test and Evaluation

- Dr. Fariba Fahroo
- Program Officer
  - Computational Mathematics
  - Dynamics and Control
  - Optimization and Discrete Mathematics

- Mr. Edward Lee
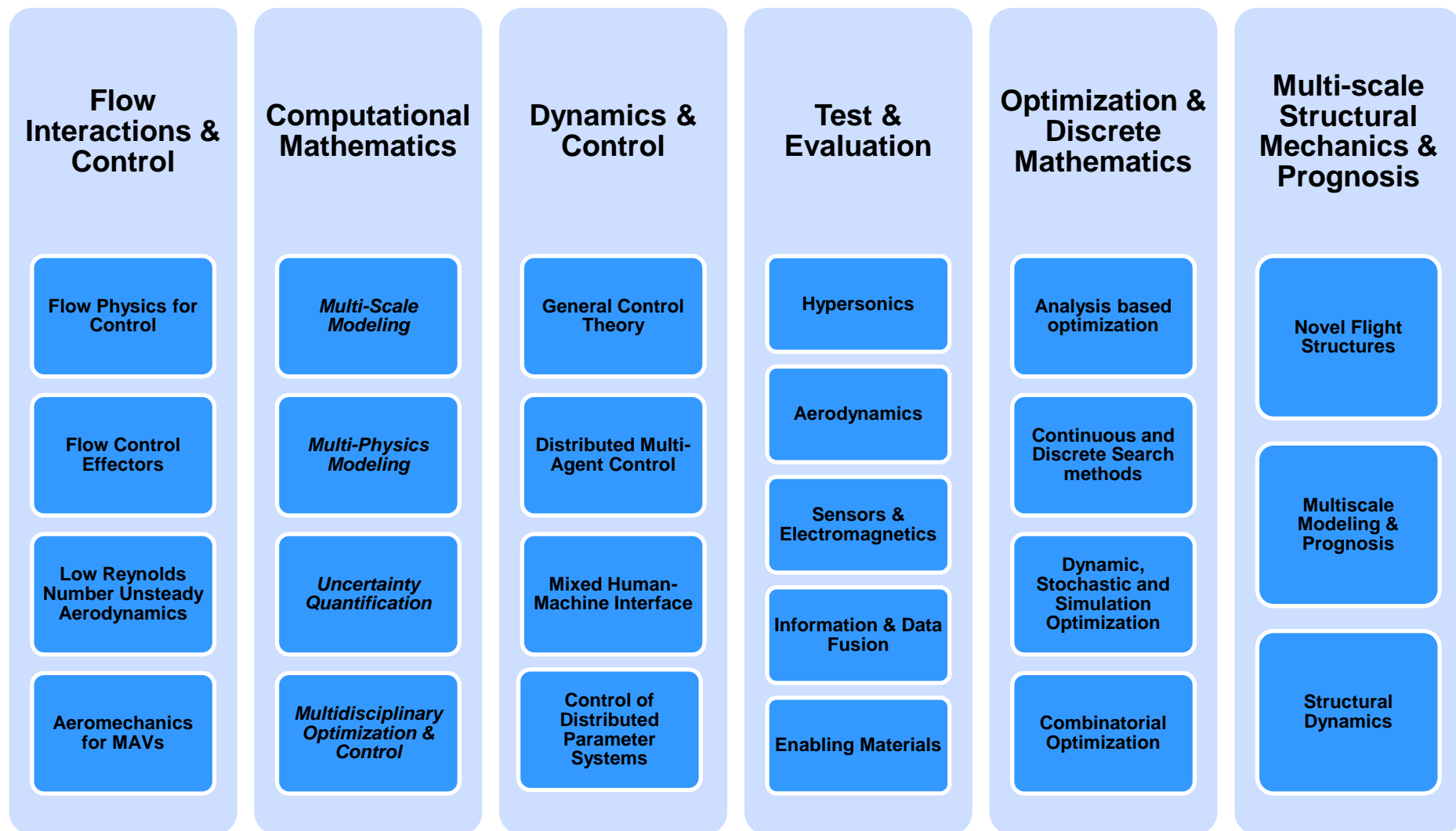- Program Coordinator
  - HBCU/MSI

- Dr. Douglas Smith
- Program Officer
  - Flow Interactions and Control

- Ms. Evelyn Dohme
- Assistant Program Officer
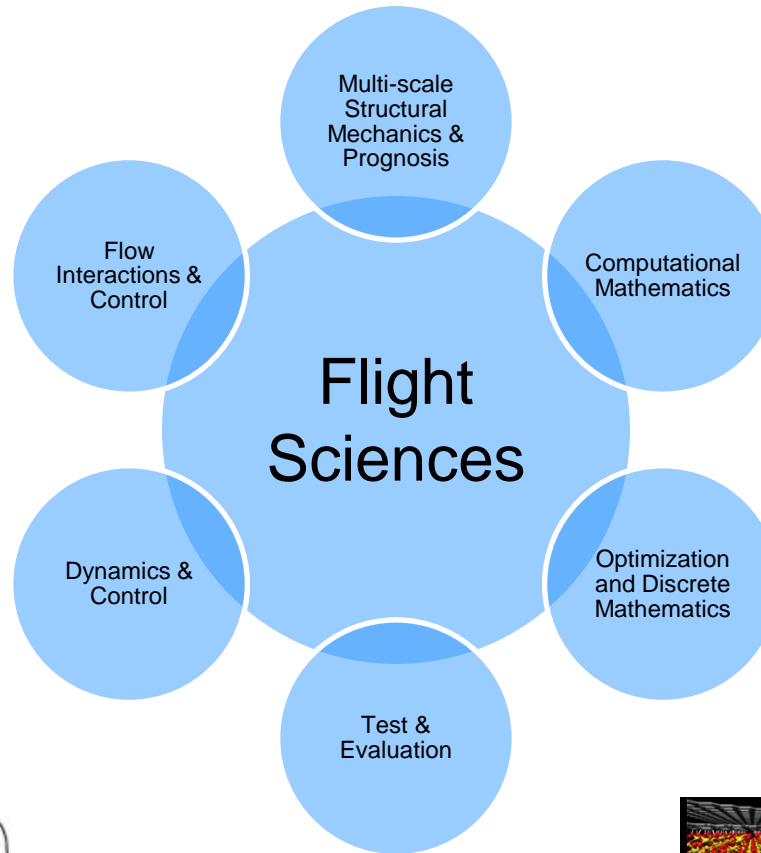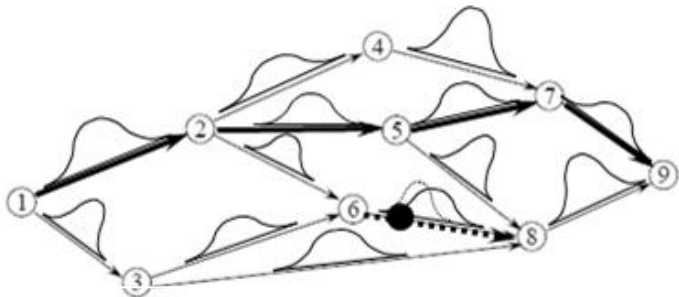
Dynamical Systems & Controls
Technical Programs

Flow Interactions & Control	Computational Mathematics	Dynamics & Control	Test & Evaluation	Optimization & Discrete Mathematics	Multi-scale Structural Mechanics & Prognosis
Flow Physics for Control	*Multi-Scale Modeling*	General Control Theory	Hypersonics	Analysis based optimization	Novel Flight Structures
Flow Control Effectors	*Multi-Physics Modeling*	Distributed Multi-Agent Control	Aerodynamics	Continuous and Discrete Search methods	Multiscale Modeling & Prognosis
Low Reynolds Number Unsteady Aerodynamics	*Uncertainty Quantification*	Mixed Human-Machine Interface	Sensors & Electromagnetics	Dynamic, Stochastic and Simulation Optimization	Structural Dynamics
Aeromechanics for MAVs	*Multidisciplinary Optimization & Control*	Control of Distributed Parameter Systems	Information & Data Fusion	Combinatorial Optimization	
			Enabling Materials		

Leading the discovery and development of the fundamental and integrated science that advances future air and space flight.

Flight Sciences

- Multi-scale Structural Mechanics & Prognosis
- Computational Mathematics
- Flow Interactions & Control
- Optimization and Discrete Mathematics
- Dynamics & Control
- Test & Evaluation

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Questions?